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## Industrial Storm Water Development of SWPPP

- I. Michigan Manufacturer's Guidebook, Section 1, chapter 3, Section 3.2.3.d
- II. Overview of Training
  - A. Development of the Storm Water Pollution Prevention Plan (SWPPP)
- III. Basics
  - A. Who needs a SWPPP
    1. Facilities with Industrial Storm Water Permit Coverage
      - a. General Permits
      - b. Individual Permits
    2. Municipalities with Municipal Separate Storm Sewer System Permit
      - a. Fleet Maintenance
      - b. Storage Yards
    3. Non permitted facilities
      - a. For Pollution Prevention
      - b. So they don't have to have Storm Water Permit Coverage
- IV. Components of the SWPPP
  - A. Source Identification
    1. Site Maps-Required items
      - a. Structures
      - b. Storage areas
      - c. Secondary containment
      - d. Storm water discharge outfalls
      - e. Inlets contributing to outfalls
      - f. Other National Pollutant Discharge Elimination System Permitted outfalls
      - g. Outline of drainage areas
      - h. Structural runoff controls
      - i. Areas of vegetation
      - j. Areas of exposed or erodible soils (gravel, poorly vegetated areas)
      - k. Impervious surfaces
      - l. Name and location of receiving waters
      - m. Areas of known soil or ground water contamination (Part 201)
    2. Significant Material Inventory
      - a. Significant materials that can degrade water quality
      - b. Assess potential to contaminate storm water runoff
    3. Significant Spills
      - a. Last 3 years
      - b. Reportable
        - i. Water quality violation
        - ii. Regulatory
  - B. Nonstructural Controls - procedures conducted by personnel
    - Controls often overlap
    1. Preventative Maintenance
      - a. Maintenance of systems and equipment
      - b. Routine inspections
        - i. Certified Operator responsibility
        - ii. Areas with grater potential



SEARCH MICHIGAN LAW ONLINE:  
[www.legislature.mi.gov](http://www.legislature.mi.gov)  
MCL Search (First Section of Part):  
324.3101 (Part 31, NREPA)

2. Good Housekeeping
  - a. What you do to keep it clean
  - b. Routine inspections
3. Comprehensive Inspections
  - a. Scheduled
    - i. Quarterly
    - ii. Approved Alternative
  - b. Certified Operator must conduct
  - c. Evaluate whole facility
4. Material Handling Procedures
  - a. Handling (loading and unloading)
  - b. Storage
  - c. Spill prevention and response
    - i. Identification of Potential Areas
    - ii. Cleanup Procedures
    - iii. Contacts
5. Erosion and Sedimentation Control
  - a. Identification of areas
  - b. Controls to be used
6. Employee Training
  - a. Frequency
  - b. Topics
    - i. Preventative Maintenance and Good Housekeeping
    - ii. Materials Handling
    - iii. Internal Spill Response
7. Total Maximum Daily Loads (TMDLs)
  - a. Measure of pollutant load a waterbody can handle that will allow it to again meet water quality standards
  - b. Listed in the Certificate of Coverage
  - c. Not applicable to all facilities
8. Significant Materials Present
  - a. List of materials expected to be in storm water runoff after implementation of the other nonstructural controls
  - b. Require Structural Controls
- C. Structural Controls
  1. Physical features that control and prevent contamination of storm water can be preventative measures or treatment systems
  2. Types
    - a. Preventative Measures
    - b. Diversions
    - c. Containment
    - d. Treatment
      - i. Oil water separators
      - ii. Catch basin inserts
      - iii. Oil Pads/Skimers
- D. Signature and SWPPP Review
  1. Certified Operator
  2. Permittee or Authorized Representative
  3. Available on request

- V. SWPPP Implementation
  - A. Operate facility according to SWPPP
  - B. Record Keeping and Reporting
  - C. Department Review
- VI. What to expect during a storm water inspection
  - A. Facility tour
    - 1. Focus on areas of impact
    - 2. Storm Water Pollution Prevention Plan audit
    - 3. Records review
    - 4. Closing meeting
    - 5. Inspection letter

### **Resources**

Industrial Storm Water Program Web site: [www.michigan.gov/deqwater](http://www.michigan.gov/deqwater), select “Surface Water” then “Storm Water” and finally look for “Industrial Program”, which can be found under “Information” within the page.

Resources available on this Web site include:

- Storm Water Certified Operator Training Materials
- Storm Water Certified Operator Exam Schedules
- Storm Water Certified Operator Review
- Notice of Intent (application)
- No Exposure Certification
- Scrap Metal Dumpster Guidance Document

Mobile Power Washing Guidance Document: [www.michigan.gov/deq](http://www.michigan.gov/deq); select “Key Topics” then “Publications” then select “Searchable” for the publications database and type “Power” in the search key, then hit Search. The link will then be listed below the search bar.

Retired Engineers Technical Assistance Program: [www.michigan.gov/deq](http://www.michigan.gov/deq) select “Pollution Prevention” then “RETAP.”

Retired professionals are available through the Retired Engineer Technical Assistance Program (RETAP) to assist Michigan businesses and institutions with pollution prevention. Each assessor has thirty to forty years of experience with Michigan industries. Businesses of 500 employees or fewer and institutions of any size are eligible.

Many pollution prevention projects can be funded through the Small Business Pollution Prevention Loan Program. Information regarding this program can be found through the RETAP page, quick link on the right side of the page.